

TMX W365

SAW Filter datasheet

2.5 x 2.0 mm, SMD

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SAW Bandpass Filters | Wireless Communications



Features

Features

- 2140 MHz center frequency
- Ceramic package for Surface Mounted Technology
- 50 Ω Single Input / 200 Ω Balanced Configuration
- 60 MHz useable Passband

Applications

- RF Filter for WCDMA Rx

2.5 x 2.0 mm



Maximum Ratings

Parameter	Min.	Typ.	Max.	Unit
Storage temperature range (T_{stg})	-25		85	°C
Operating temperature range (T_A)	-40		85	°C

Frequency and Electrical Characteristics (Reference temperature @ 25°C)

Parameter	Min.	Typ. ¹	Max.	Unit
Source impedance (Single ended)		50		Ω
Load impedance ² (balanced drive)		200		Ω
Center frequency (fc)		2140		MHz
Bandwidth @ -3dB (BW, passband width)	60.00			MHz
Absolute Attenuation				dB
From 180 to 200 MHz	60	85		
From 200 to 1000 MHz	50	58		
From 1000 to 1880 MHz	29	36		
From 1880 to 1980 MHz	26	32		
From 1980 to 2050 MHz	22	28		
From 2050 to 2255 MHz	13	20		
From 2255 to 2300 MHz	19	25		
From 2300 to 2490 MHz	22	26		
From 2490 to 2550 MHz	30	39		
From 2550 to 3200 MHz	32	36		
From 3200 to 6000 MHz	38	49		
Insertion Loss (IL, 2110 – 2170 MHz)		3.1	4.1	dB
Symmetry in band (referenced to the matched operating condition)				
Output amplitude balance: S31 / S21 : 2110 – 2170 MHz	-2.9	0	1.4	dB
Output phase balance: (S31) – (S21)+180°: 2110 – 2170 MHz	-10	0	15	°
Input VSWR (2110 – 2170 MHz)		1.7	2.4	
Output VSWR (2110 – 2170 MHz)		1.8	2.4	

¹ Typical values are nominal performances at room temperature

² External matching network is required

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Amplitude ³ ripple within 2110 ~ 2170 MHz	0.9	1.8	dB
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Model Outline, Pin Connection and Marking

TOP VIEW

FRONT VIEW

SIDE VIEW

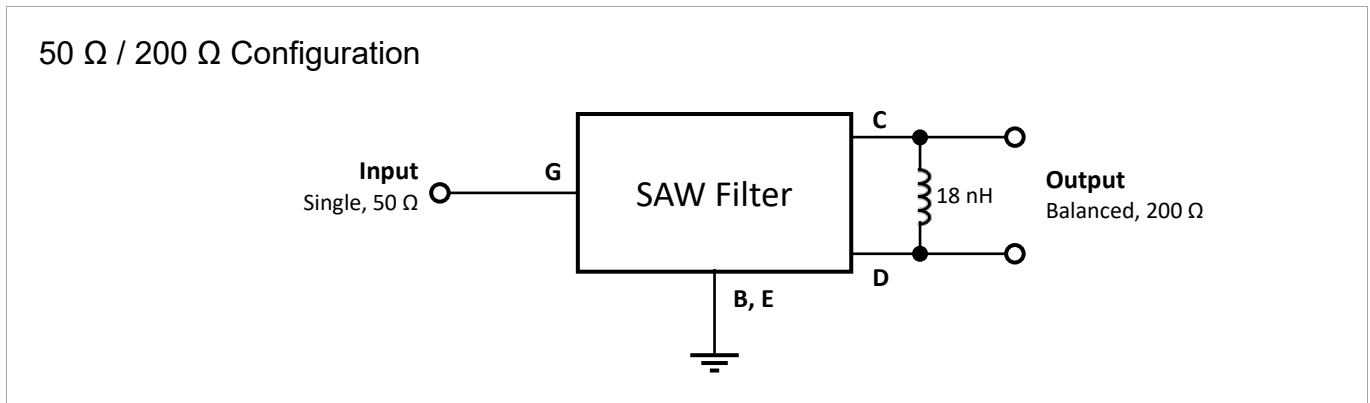
BOTTOM VIEW

Marking		Note
Line 1	PC	P = Product Code Identification C = Partner Identifier
Line 2	YW	Y = Last digit of the year W = Week Code ("A" to "Z" for Week 1 to 26 and "a" to "z" for the week 27 to 52)
Line 3	•	• = Identify black dot

Pin	Connections
G	Input
C, D	Output
B, E	Case Ground

Unit: mm

Test Circuit



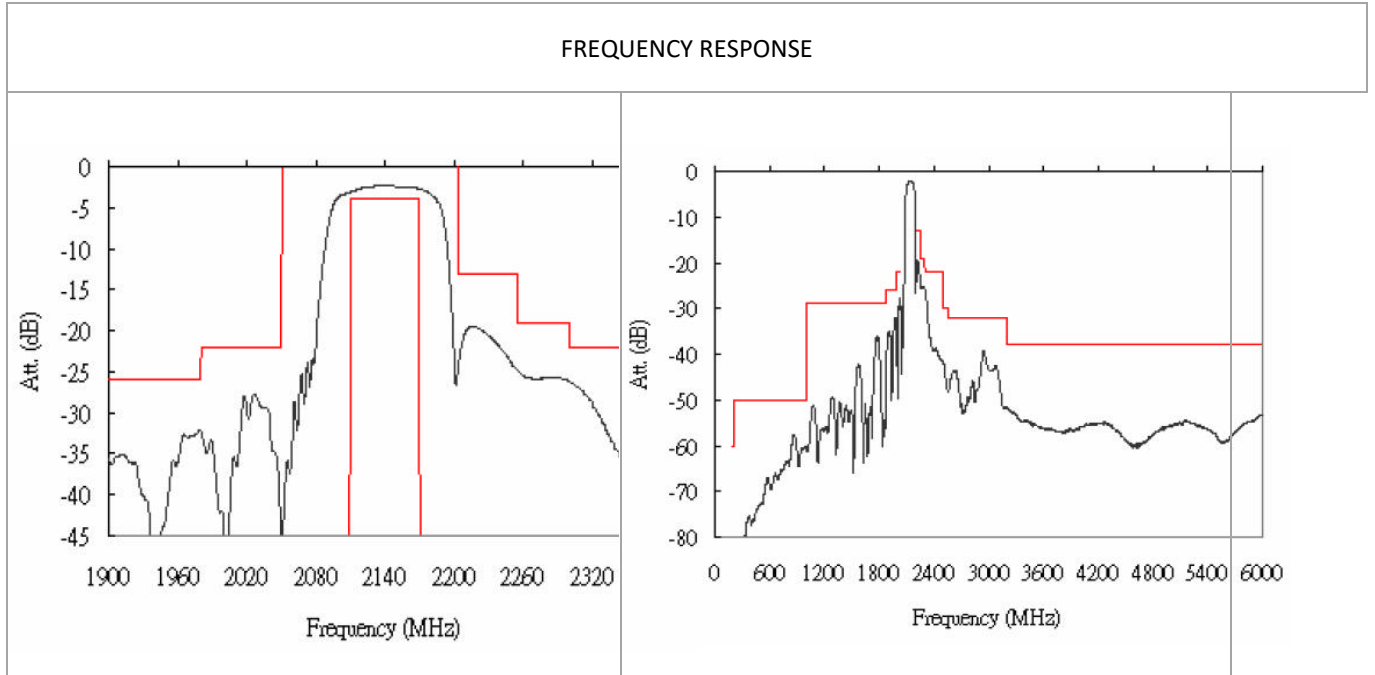
³ The amplitude variation is defined as the maximum level – minimum level over the given bandwidth

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Frequency Characteristics



Packaging

REEL DETAILS:

